

Figure 1

Application No.: 10/690,634

Amendment dated: December 5, 2005

Reply to Office Action dated: June 3, 2005

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Load Buffer 141

Store Buffer 143

Memory Ordering Buffer (MOB) 127

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#### **Store Buffer** 312 3) 2) 1) Seg. No. **Control Info** 305 Address $\mathbf{Z}$ 310 Data **0F0** 315 143 Figure 3a

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(	Operation	Source	• Destination
1)	Store	R4,	[R1]
2)	Load	[X],	R2

Reg.	Correct Value	Incorrect Value	
R1	X	<b>Y</b> -	

# Figure 4a

### L0 Cache System 120

Address	Data
X	F000

Figure 4b

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## Store Buffer

	2)	1)	_
		Seg. No. 512 Invalid Store Flag 510	Control Info
		Y	Address 310
÷		F0F0	Data 315
		1434	·

Figure 5

Application No.: 10/690,634

) Amendment dated: December 5, 200

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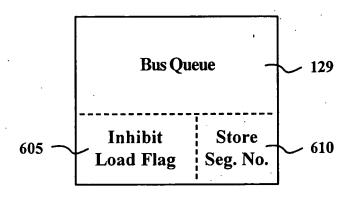


Figure 6

#### **Store Buffer**

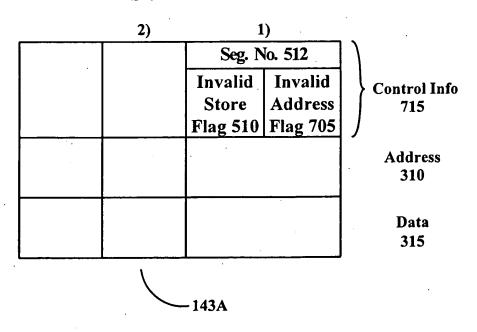


Figure 7